## IN THE CLAIMS

Claim 1 has been amended as follows:

- 1. (Currently amended) An apparatus for generating x-rays for use with a peripheral device containing a process computer, said apparatus comprising:
  - a <u>single</u> structural unit <u>having a housing</u> containing <u>all of</u> a plurality of components operable in combination for generating x-rays, including an x-ray tube and a digital control, regulation and storage unit, <u>said</u> digital control, regulation and storage unit being connected to all of said components, including being connected to said x-ray tube for controlling operation of said x-ray tube; <u>and</u>

a peripheral device containing a process computer; and

said digital control, regulation and storage unit having an interface, accessible at said structural unit, <u>adapted for connection</u> to said process computer, said interface forming a single interface to said process computer for all of the components in said structural unit.

- 2. (Original) An apparatus as claimed in claim 1 wherein said x-ray tube has a cathode, and wherein said plurality of components include a heater current source connected to said cathode for heating said cathode.
- 3. (Original) An apparatus as claimed in claim 1 wherein said plurality of components include a cooling unit associated with said x-ray tube for circulating a coolant for cooling said x-ray tube, and a sensor for sensing at least one of a pressure and a temperature of said coolant.
- 4. (Original) An apparatus as claimed in claim 1 wherein said digital control, regulation and storage unit contains a program, and operates according to said

program, for determining acceptability of a load on said x-ray tube requested by a user.

- 5. (Original) An apparatus as claimed in claim 1 wherein said x-ray tube has a rotating anode, and wherein said plurality of components include an electrical actuator for said rotating anode.
- 6. (Original) An apparatus as claimed in claim 1 wherein said digital control, regulation and storage unit contains a program, and operates according to said program to store accumulated operating data associated with operation of said x-ray tube.
- 7. (Original) An apparatus as claimed in claim 1 wherein said digital control, regulation and storage unit contains a program, and operates according to said program, to determine at least one of wear of said x-ray tube and an expected remaining life of said x-ray tube.
- 8. (Original) An apparatus as claimed in claim 1 wherein said digital control, regulation and storage unit contains a program, and operates according to said program, for monitoring operation of said plurality of components, including monitoring operation of said x-ray tube.
- 9. (Original) An apparatus as claimed in claim 1 wherein said plurality of components include a high voltage generator connected to said x-ray tube for supplying high voltage to said x-ray tube for operating said x-ray tube.